Features

Unregulated Converters

- 1:1 Input Range
- Low Cost 1W Converter
- Efficiency to 75%
- -40°C to +85°C Operating Temperature Range

ECONOLINE
DC/DC-Converter

RECOM

1 Watt SIP4
Single Output

RoHS 2002/95/EC 6/6

ROE

Selection Guide

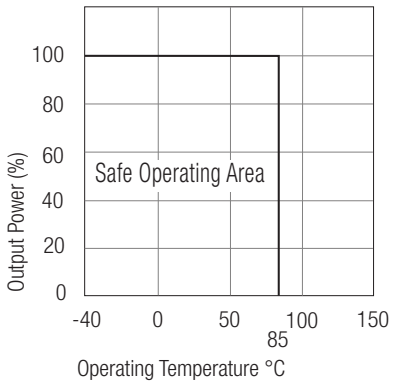
Part Number SMD	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (typ.)
ROE-0505S	5	5	200	75%

Specifications (measured at T_A = 25°C, nominal input voltage, full load and after warm-up)

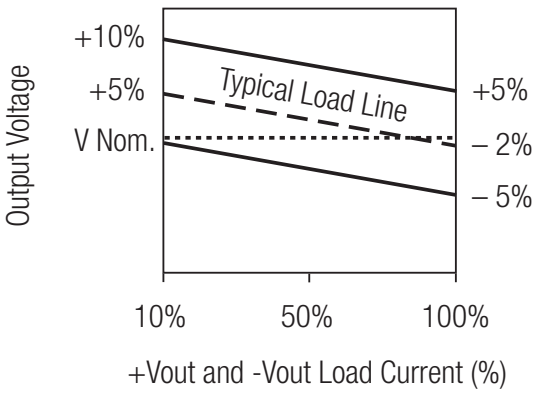
Input Voltage Range		±10% max.
Output Voltage Accuracy		-2% typ., ±5% max.
Line Voltage Regulation	(low line to high line at max. load)	1.2% typ.
	20% to 100% load (5V output)	10% max.
Output Ripple and Noise (20MHz BW limited)		52mVp-p typ. / 100mVp-p max.
Operating Frequency (Vin=nominal input)		50kHz min. / 82kHz typ. / 105kHz max.
Efficiency		75% typ. / 70% min.
Isolation Test Voltage (tested for 1 second)		1000 VDC min.
Isolation Capacitance		75pF max.
Isolation Resistance	(Viso=500V)	1GΩ min.
Short-Circuit Protection		1 sec.
Operating Temperature Range		-40°C to +85°C
Storage Temperature		-55°C to +125°C
Relative Humidity		95% RH
Package Weight		1.4g
MTBF (+25°C) *Detailed Information see Application Notes chapter "MTBF"*	using MIL-HDBK 217F	2400 x 10^3 hours
MTBF (+85°C)	using MIL-HDBK 217F	650 x 10^3 hours

Typical Characteristics

Derating-Graph
(Ambient Temperature)

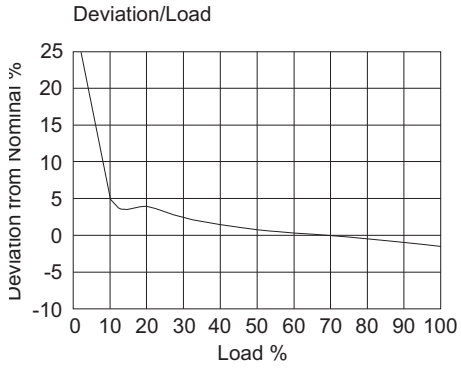


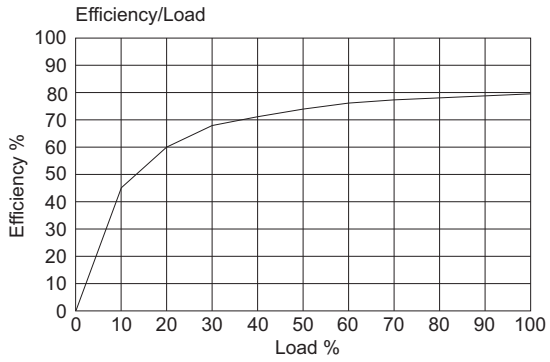
Tolerance Envelope



Typical Characteristics

ROE-0505S

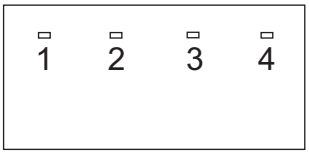




Package Style and Pinning

Single SIP 4PIN Package

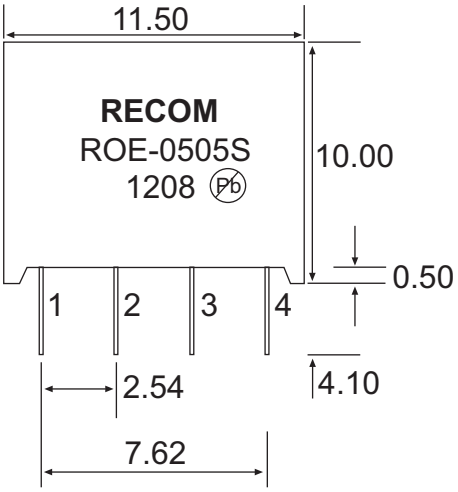
3rd angle projection

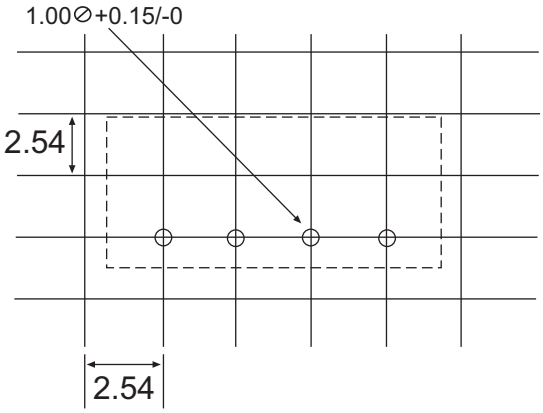


BOTTOM VIEW

Pin Connections	
Pin #	Function
1	-Vin
2	+Vin
3	-Vout
4	+Vout

Unit: mm
Tolerance: ± 0.25 mm





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